

SEQUENCE LISTING

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<120> YEAST CELLS ENGINEERED TO PRODUCE PHEROMONE SYSTEM
 PROTEIN SURROGATES, AND USES THEREFOR

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 <151> 1994-09-20

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<150> 08/041,431
 <151> 1993-03-31

<160> 135

<170> PatentIn version 3.5

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Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
 20 25 30

Ile Pro Ala Glu Ala Val Ile Gly Tyr Leu Asp Leu Glu Gly Asp Phe
 35 40 45

Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
 50 55 60

Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
65 70 75 80

Ser Leu Asp Lys Arg Glu Ala Glu Ala
85

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<213> *Saccharomyces cerevisiae*

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Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr Lys Arg Glu
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Ala Glu Ala Glu Ala Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro
20 25 30

Met Tyr Lys Arg Glu Ala Asp Ala Glu Ala Trp His Trp Leu Gln Leu
35 40 45

Lys Pro Gly Gln Pro Met Tyr Lys Arg Glu Ala Asp Ala Glu Ala Trp
50 55 60

His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr
65 70 75

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oligonucleotide

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 Lys Glu Glu Gly Val Ser Leu Leu
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37

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 substitutions and preferred embodiments

<400> 6
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 knknknktga tcatccg 77

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 peptide

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 1 5 10 15

Xaa Xaa Xaa

<210> 8
 <211> 36
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 8
 Met Gln Pro Ser Thr Ala Thr Ala Ala Pro Lys Glu Lys Thr Ser Ser
 1 5 10 15

Glu Lys Lys Asp Asn Tyr Ile Ile Lys Gly Val Phe Trp Asp Pro Ala
 20 25 30

Cys Val Ile Ala
 35

<210> 9
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 oligonucleotide

<400> 9
 agctttcga atagaaatg

18

<210> 10
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 oligonucleotide

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 Ala Ala Pro Lys Glu Lys Thr Ser Ser
 1 5

36

<210> 11
 <211> 9
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<220>
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 construct

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 substitutions and preferred embodiments

<400> 12
 ggtactcgag tgaaaagaag gacaacnnkn nknnknnknn knnknnknnk nnknnknnkt 60

gtgttattgc ttaagtagc 79

<210> 13
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 peptide

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<400> 13
 Ser Ser Glu Lys Lys Asp Asn Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Cys Val Ile Ala
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<210> 14
 <211> 34
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<400> 14
 gttaagaacc atatactagt atcaaaaatg tctg 34

<210> 15
 <211> 35
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 oligonucleotide

<400> 15
 tgatcaaaat ttactagttt gaaaaagtaa tttcg 35

<210> 16
 <211> 28
 <212> DNA
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<400> 16
 ggcaaaatac tagtaaaatt ttcatgtc 28

<210> 17
 <211> 34
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 oligonucleotide

<400> 17
 ggcccttaac acactagtgt cgcattatat ttac 34

<210> 18
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 oligonucleotide

<400> 18
 ctaaagaaga aggggtatct ttgcttaagc tcgagatctc gactgataac aacagtgtag 60

<210> 19
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<400> 19
 catacacaat ataaagcttt aaaagaatga g 31

<210> 20
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<400> 20
 gctacttaag cgtgaggcag aagct 25

<210> 21
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 <210> 22
 <211> 41
 <212> DNA
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 oligonucleotide

 <400> 22
 ccaaaataag tacaaagctt tcgaatagaa atgcaaccat c 41

 <210> 23
 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
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 oligonucleotide

 <400> 23
 gccgctccaa aagaaaagac ctcgagctcg cttaagttct gcgtacaaaa acgttggtc 59

 <210> 24
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 24
 ggtactcgag tgaaaagaag gacaac 26

 <210> 25
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 <212> DNA
 <213> Artificial Sequence

 <220>
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 oligonucleotide

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49

<210> 26
 <211> 28
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<220>
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<400> 26
 cgtgaagctt aagcgtgagg cagaagct

28

<210> 27
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 substitutions and preferred embodiments

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57

<210> 28
 <211> 26
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<220>
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 oligonucleotide

<400> 28
 ggtactcgcgag tgaaaagaag gacaac

<210> 29
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<400> 29
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<210> 30
 <211> 34
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<220>
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<400> 30
 gggaagctta tgccgagatc gtgctgccag ccgc 34

<210> 31
 <211> 32
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<220>
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 oligonucleotide

<400> 31
 ggggaagact tctgccctgc gccgctgctg cc 32

<210> 32
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 <212> DNA
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 oligonucleotide

<400> 32
 ggggaagacc cgcaggaggc agaagcttgg ttgcag 36

<210> 33
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 33
 gggagatctt cagtacattg gttggcc

27

<210> 34
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 34
 Arg Asn Ser Ser Ser Ser Gly Ser Ser Gly Ala Gly Gln Lys Arg Glu
 1 5 10 15

Ala Glu Ala Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr
 20 25 30

<210> 35
 <211> 29
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 <213> Homo sapiens

<400> 35
 ccgcgtctca catgcccaag aagaagccg

29

<210> 36
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 36
 ccgtctagat gctggcagcg tggg

24

<210> 37
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<400> 37
ttaagcgtga ggcagaagct tatcgata

28

<210> 38
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<212> DNA
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oligonucleotide

<400> 38
cgcaactcogt cttcgaatag ctatctag

28

<210> 39
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<400> 39
 ctggatgcga agacagctnn knnknknknk nnknknknkn nknnknknkn knnktgatca 60
 gtctgtgacg c 71

<210> 40
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<400> 40
 gcgtcacaga ctgatca 17

<210> 41
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 substitutions and preferred embodiments

<400> 41
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 gtctgtgacg c 71

<210> 42
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 Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 43
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 43
 Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 44
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 44
 ctggatgcga agactcagct 20

<210> 45
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 45
 cggatgatca gtacattggg tggccagggt ttagctgcaa ccaatgccaa gctgagtctt 60
 cgcatccag 69

<210> 46
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
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 <222> (1)..(39)

<400> 46
 tgg cat tgg cta cag cta acg cct ggg caa cca atg tac 39
 Trp His Trp Leu Gln Leu Thr Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 47
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 47
 Trp His Trp Leu Gln Leu Thr Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 48
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
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 Trp His Trp Leu Glu Leu Met Pro Gly Gln Pro Leu Tyr
 1 5 10

39

<210> 49
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 49
 Trp His Trp Leu Glu Leu Met Pro Gly Gln Pro Leu Tyr
 1 5 10

<210> 50
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
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 <222> (1)..(39)

<400> 50
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 Trp His Trp Met Glu Leu Arg Pro Gly Gln Pro Met Tyr
 1 5 10

39

<210> 51
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 51
 Trp His Trp Met Glu Leu Arg Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 52
 <211> 33
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 <213> Artificial Sequence

<220>
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 oligonucleotide

<220>
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 <222> (1)..(33)

<400> 52
 tat gct ctg ttt gtt cat ttt ttt gat att ccg 33
 Tyr Ala Leu Phe Val His Phe Phe Asp Ile Pro
 1 5 10

<210> 53
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 construct

<400> 53
 Tyr Ala Leu Phe Val His Phe Phe Asp Ile Pro
 1 5 10

<210> 54
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<220>
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 <222> (1)..(33)

<400> 54
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 Phe Lys Gly Gln Val Arg Phe Val Val Leu Ala
 1 5 10

<210> 55
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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 construct

<400> 55
 Phe Lys Gly Gln Val Arg Phe Val Val Leu Ala
 1 5 10

<210> 56
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 <213> Artificial Sequence

<220>
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 oligonucleotide

<220>
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 <222> (1)..(33)

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 ctt atg tct ccg tct ttt ttt ttt ttg cct gcg
 Leu Met Ser Pro Ser Phe Phe Phe Leu Pro Ala
 1 5 10

33

<210> 57
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 construct

<400> 57
 Leu Met Ser Pro Ser Phe Phe Phe Leu Pro Ala
 1 5 10

<210> 58
 <211> 27
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 58
 cgggatccga tgcaattttc aacatgc

27

<210> 59
 <211> 23
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 59
 gctctagatg ctactgatcc cgc

23

<210> 60
 <211> 18
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 60 cgccgcatga ctccattg	18
<210> 61 <211> 26 <212> DNA <213> <i>Saccharomyces cerevisiae</i>	
<400> 61 ggggtaccaa taggttcttt cttagg	26
<210> 62 <211> 35 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 62 ggtgggaggg tgctctctag aaggaagtgt tcacc	35
<210> 63 <211> 41 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 63 gccagagaga ccagaccatg gactccttca attataccac c	41
<210> 64 <211> 42 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 64 ccccttaagc gtgaggcaga agctactctg caaaagaaga tc	42
<210> 65 <211> 29 <212> DNA <213> Artificial Sequence	

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 65
 gaagatcttc agcggccgag ttgcatgtc 29

<210> 66
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 66
 gatatattaa ggtaggaaac catgggggtgt acagtgag 38

<210> 67
 <211> 34
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 67
 cgagcgctcg agggaaacgta taattaaagt agtg 34

<210> 68
 <211> 34
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 68
 gcgcggtacc aagcttcaat tcgagataat accc 34

<210> 69
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 69
 cccgaatcca ccaatttctt tacg 24

<210> 70
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 70

gcggcgctcga cgcggccgcg taacagt

27

<210> 71

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 71

ctgctggagc tccgctgct gctgctgggt gctggag

37

<210> 72

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 72

ctgctggtcg acgcggccgc gggggttcct tcttagaagc agc

43

<210> 73

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 73

gggctcgagc cttcttagag cagctcgta

30

<210> 74

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 74

ctgctggagc tcaagttgct gctgttgggt gctgggg

37

<210> 75
 <211> 44
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 75
 ctgctggtcg acgcgggccgc gccoctcaga agaggccgcg gtcc

44

<210> 76
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 76
 gggctcgagc ctcagaagag gccgcagtc

29

<210> 77
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 77
 ctgctggagc tcaagctgct gctactcggc gctggag

37

<210> 78
 <211> 49
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 78
 ctgctggtcg acgcgggccgc cactaacatc catgcttctc aataaagtc

49

<210> 79
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 79

gggctcgagc atgcttctca ataaagtcca c

31

<210> 80

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 80

gcatccatca ataattccag

19

<210> 81

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 81

gaaacaatgg atccacttct tac

23

<210> 82

<211> 66

<212> PRT

<213> Saccharomyces cerevisiae

<400> 82

Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro
1 5 10 15Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln
20 25 30Leu Glu Lys Gln Arg Asp Lys Asn Glu Ile Lys Leu Leu Leu Gly
35 40 45Ala Gly Glu Ser Gly Lys Ser Thr Val Leu Lys Gln Leu Lys Leu Leu
50 55 60

His Gln
65

<210> 83
<211> 65
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 83
Met Gly Cys Leu Gly Thr Ser Lys Thr Glu Asp Gln Arg Asn Glu Glu
1 5 10 15

Lys Ala Gln Arg Glu Ala Asn Lys Lys Ile Glu Lys Gln Leu Gln Lys
20 25 30

Asp Lys Gln Val Tyr Arg Ala Thr His Arg Leu Leu Leu Leu Gly Ala
35 40 45

Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu His
50 55 60

Val
65

<210> 84
<211> 58
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 84
Met Gly Cys Thr Val Ser Ala Glu Asp Lys Ala Ala Ala Glu Arg Ser
1 5 10 15

Lys Met Ile Asp Lys Asn Leu Arg Glu Asp Gly Glu Lys Ala Ala Arg
20 25 30

Glu Val Lys Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr
35 40 45

Ile Val Lys Gln Met Lys Ile Ile His Glu
50 55

<210> 85
<211> 58
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 85

Met Gly Cys Thr Val Ser Ala Glu Asp Lys Ala Ala Val Glu Arg Ser
 1 5 10 15

Lys Met Ile Asp Arg Asn Leu Arg Glu Asp Gly Glu Lys Ala Ala Lys
 20 25 30

Glu Val Lys Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr
 35 40 45

Ile Val Lys Gln Met Lys Ile Ile His Glu
 50 55

<210> 86

<211> 67

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 86

Met Ala Arg Ser Leu Thr Trp Arg Cys Cys Pro Trp Cys Leu Thr Glu
 1 5 10 15

Asp Glu Lys Ala Ala Ala Arg Val Asp Gln Glu Ile Asn Arg Ile Leu
 20 25 30

Leu Glu Gln Lys Lys Gln Asp Arg Gly Glu Leu Lys Leu Leu Leu Leu
 35 40 45

Gly Pro Gly Glu Ser Gly Lys Ser Thr Phe Ile Lys Gln Met Arg Ile
 50 55 60

Ile His Gly
 65

<210> 87

<211> 66

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 87

Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro
 1 5 10 15

30

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln
20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Arg Lys Leu Leu Leu Gly
35 40 45

Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu
50 55 60

His Val
65

<210> 88
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 88
Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro
1 5 10 15

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln
20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Val Lys Leu Leu Leu Gly
35 40 45

Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Lys Ile Ile
50 55 60

His Glu
65

<210> 89
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 89
Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro
1 5 10 15

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln
 20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Val Lys Leu Leu Leu Gly
 35 40 45

Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Lys Ile Ile
 50 55 60

His Glu
 65

<210> 90
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 90
 Met Gly Cys Thr Val Ser Thr Gln Thr Ile Gly Asp Glu Ser Asp Pro
 1 5 10 15

Phe Leu Gln Asn Lys Arg Ala Asn Asp Val Ile Glu Gln Ser Leu Gln
 20 25 30

Leu Glu Lys Gln Arg Asp Lys Asn Glu Leu Lys Leu Leu Leu Gly
 35 40 45

Pro Gly Glu Ser Gly Lys Ser Thr Phe Ile Lys Gln Met Arg Ile Ile
 50 55 60

His Gly
 65

<210> 91
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 91

tgg cat tgg ttg cag cta aaa cct ggc cag cct atg tac
 Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr
 1 5 10

39

<210> 92

<211> 13

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 92

Trp His Trp Leu Gln Leu Lys Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 93

<211> 39

<212> DNA

<213> *Saccharomyces cerevisiae*

<220>

<221> CDS

<222> (1)..(39)

<400> 93

tgg cat tgg ttg tcc ttg tgg ccc ggc cag cct atg tac
 Trp His Trp Leu Ser Leu Ser Pro Gly Gln Pro Met Tyr
 1 5 10

39

<210> 94

<211> 13

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 94

Trp His Trp Leu Ser Leu Ser Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 95

<211> 39

<212> DNA

<213> *Saccharomyces cerevisiae*

<220>

<221> CDS

<222> (1)..(39)

<400> 95

tgg cat tgg ttg tcc ctg gac gct ggc cag cct atg tac
 Trp His Trp Leu Ser Leu Asp Ala Gly Gln Pro Met Tyr
 1 5 10

39

<210> 96
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 96
 Trp His Trp Leu Ser Leu Asp Ala Gly Gln Pro Met Tyr
 1 5 10

<210> 97
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 97
 tgg cat tgg ttg acc ttg atg gcc ggg cag cct atg tac
 Trp His Trp Leu Thr Leu Met Ala Gly Gln Pro Met Tyr
 1 5 10

39

<210> 98
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 98
 Trp His Trp Leu Thr Leu Met Ala Gly Gln Pro Met Tyr
 1 5 10

<210> 99
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 99
 tgg cat tgg ttg cag ctg tcg gcg ggc cag cct atg tac
 Trp His Trp Leu Gln Leu Ser Ala Gly Gln Pro Met Tyr
 1 5 10

39

<210> 100
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 100
 Trp His Trp Leu Gln Leu Ser Ala Gly Gln Pro Met Tyr
 1 5 10

<210> 101
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 101
 tgg cat tgg ttg agg ttg cag tcc ggc cag cct atg tac 39
 Trp His Trp Leu Arg Leu Gln Ser Gly Gln Pro Met Tyr
 1 5 10

<210> 102
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 102
 Trp His Trp Leu Arg Leu Gln Ser Gly Gln Pro Met Tyr
 1 5 10

<210> 103
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 103
 tgg cat tgg ttg cgc ttg tcc gcc ggg cag cct atg tac 39
 Trp His Trp Leu Arg Leu Ser Ala Gly Gln Pro Met Tyr
 1 5 10

<210> 104
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 104
 Trp His Trp Leu Arg Leu Ser Ala Gly Gln Pro Met Tyr
 1 5 10

<210> 105
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 105
 tgg cat tgg ttg tgg ctg gtc ccg ggg cag cct atg tac
 Trp His Trp Leu Ser Leu Val Pro Gly Gln Pro Met Tyr
 1 5 10

39

<210> 106
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 106
 Trp His Trp Leu Ser Leu Val Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 107
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 107
 tgg cat tgg ttg tcc ctg tac ccc ggg cag cct atg tac
 Trp His Trp Leu Ser Leu Tyr Pro Gly Gln Pro Met Tyr
 1 5 10

39

<210> 108
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 108
 Trp His Trp Leu Ser Leu Tyr Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 109
 <211> 39
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<220>
 <221> CDS
 <222> (1)..(39)

<400> 109

tgg cat tgg ttg cgg ctg cag ccc ggg cag cct atg tac
 Trp His Trp Leu Arg Leu Gln Pro Gly Gln Pro Met Tyr
 1 5 10

39

<210> 110
 <211> 13
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 110

Trp His Trp Leu Arg Leu Gln Pro Gly Gln Pro Met Tyr
 1 5 10

<210> 111
 <211> 62
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 111

Arg Ile Asp Thr Thr Gly Ile Thr Glu Thr Glu Phe Asn Ile Gly Ser
 1 5 10 15

Ser Lys Phe Lys Val Leu Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys
 20 25 30

Lys Trp Ile His Cys Phe Glu Gly Ile Thr Ala Val Leu Phe Val Leu
 35 40 45

Ala Met Ser Glu Tyr Asp Gln Met Leu Phe Glu Asp Glu Arg
 50 55 60

<210> 112
 <211> 62
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 112

Arg Val Leu Thr Ser Gly Ile Phe Glu Thr Lys Phe Gln Asn Asp Lys
 1 5 10 15

Val Asn Phe His Met Phe Asp Val Gly Gly Gln Arg Asp Glu Arg Lys
 20 25 30

Lys Trp Ile Gln Cys Phe Asn Asp Val Thr Ala Ile Ile Phe Val Val
 35 40 45

Ala Ser Ser Ser Tyr Asn Met Val Ile Arg Glu Asp Asn Gln
 50 55 60

<210> 113
 <211> 62
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 113
 Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe Lys Asp
 1 5 10 15

Leu His Phe Lys Met Phe Asp Val Gly Gly Gln Arg Ser Glu Arg Lys
 20 25 30

Lys Trp Ile His Cys Phe Glu Gly Val Thr Ala Ile Ile Phe Cys Val
 35 40 45

Ala Leu Ser Ala Tyr Asp Leu Val Leu Ala Asp Glu Glu Met
 50 55 60

<210> 114
 <211> 62
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 114
 Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe Lys Asp
 1 5 10 15

Leu Tyr Phe Lys Met Phe Asp Val Gly Gly Gln Arg Ser Glu Arg Lys
 20 25 30

Lys Trp Ile His Cys Phe Glu Gly Val Thr Ala Ile Ile Phe Cys Val
 35 40 45

Ala Leu Ser Asp Tyr Asp Leu Val Leu Ala Glu Asp Glu Glu
 50 55 60

<210> 115
 <211> 62
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 115
 Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe Lys Asn
 1 5 10 15

Leu His Phe Arg Leu Phe Asp Val Gly Gly Gln Arg Ser Glu Arg Lys
 20 25 30

Lys Trp Ile His Cys Phe Glu Asp Val Thr Ala Ile Ile Phe Cys Asn
 35 40 45

Ala Leu Ser Gly Tyr Asp Gln Val Leu His Glu Asp Glu Thr
 50 55 60

<210> 116

<211> 62

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 116

Arg Val Pro Thr Thr Gly Ile Ile Glu Tyr Pro Phe Asp Leu Glu Asn
 1 5 10 15

Ile Ile Phe Lys Met Val Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys
 20 25 30

Lys Trp Ile His Cys Phe Glu Asn Val Thr Ser Ile Met Phe Leu Val
 35 40 45

Ala Leu Ser Glu Tyr Asp Gln Cys Leu Glu Glu Asn Asn Gln
 50 55 60

<210> 117

<211> 62

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 117

Arg Met Pro Thr Thr Gly Ile Asn Glu Tyr Cys Phe Ser Val Gln Lys
 1 5 10 15

Thr Asn Leu Lys Ile Val Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys
 20 25 30

Lys Trp Ile His Cys Phe Glu Asn Ile Ile Ala Leu Ile Tyr Leu Ala
 35 40 45

Ser Leu Ser Glu Tyr Asp Gln Val Leu Val Glu Ser Asp Asn
 50 55 60

<210> 118
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 118
 Asp Val Gly Gly Gln
 1 5

<210> 119
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 119
 Ser Ser Gly Ala Gly Gln Lys Arg
 1 5

<210> 120
 <211> 9
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 120
 Leu Leu Leu Leu Gly Ala Gly Glu Ser
 1 5

<210> 121
 <211> 9
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 121
 Leu Glu Lys Gln Arg Asp Lys Asn Glu
 1 5

<210> 122
 <211> 6
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Any amino acid

<220>
 <221> MOD_RES
 <222> (4)..(5)
 <223> Any amino acid

<400> 122
 Gly Xaa Gly Xaa Xaa Gly
 1 5

<210> 123
 <211> 10
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 123
 Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly
 1 5 10

<210> 124
 <211> 6
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<220>
 <221> MOD_RES
 <222> (3)..(5)
 <223> Any amino acid

<400> 124
 Met Gly Xaa Xaa Xaa Ser
 1 5

<210> 125
 <211> 9
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 125
 Gly Ser Gly Glu Ser Gly Asp Ser Thr
 1 5

<210> 126
 <211> 8
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 126
 Gln Ala Arg Lys Leu Gly Ile Gln
 1 5

<210> 127
 <211> 9
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 127
 Leu Ile His Glu Asp Ile Ala Lys Ala
 1 5

<210> 128
 <211> 7
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 128
 tgaaaca

7

<210> 129
 <211> 10
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 129
 Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly
 1 5 10

<210> 130
 <211> 8
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 130
 Leu Leu Leu Leu Gly Ala Gly Glu
 1 5

<210> 131
 <211> 6
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 131
 gaggct

6

<210> 132
 <211> 4
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 132
 gaga

4

<210> 133
 <211> 11
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 133
 Tyr Ile Ile Lys Gly Val Phe Trp Asp Pro Ala
 1 5 10

<210> 134
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 134
 Glu Ala Glu Ala
 1

<210> 135
 <211> 37
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 135
 Arg Ile Lys Thr Thr Gly Ile Thr Glu Thr Glu Phe Asn Ile Gly Ser
 1 5 10 15

Ser Lys Phe Lys Val Leu Asp Ala Gly Gly Gln Arg Ser Glu Arg Lys
 20 25 30

Lys Trp Ile His Cys
 35